

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A method that facilitates dynamic delivery of
2 service profiles to a client, comprising:
3 performing a discovery operation to allow the client to discover new
4 services on a network;
5 if a new service is discovered for which the client does not possess a
6 service profile for the new service, causing the client to obtain the service profile
7 from the new service, ~~wherein the service profile specifies how to use the new~~
8 ~~service~~; and
9 causing the service profile to be installed on the client to enable the client
10 to use the new service.

- 1 2. (Original) The method of claim 1, wherein causing the client to
2 obtain the service profile involves:
3 causing the client to send a request for the service profile to the new
4 service; and
5 causing the client to receive the service profile from the new service.

- 1 3. (Original) The method of claim 1, wherein the service profile
2 includes code, and wherein causing the service profile to be installed on the client
3 involves causing the code to be installed on the client.

1 4. (Original) The method of claim 1,
2 wherein the service profile includes a specification that describes how to
3 use the new service; and
4 wherein causing the service profile to be installed on the client involves,
5 causing code to be generated to implement the
6 specification, and
7 causing the code to be installed on the client.

1 5. (Original) The method of claim 1, wherein the service profile is
2 encoded in a universal form that can be executed by different types of clients.

1 6. (Original) The method of claim 1,
2 wherein there exist different service profile implementations for different
3 types of clients; and
4 wherein causing the client to obtain the service profile involves,
5 communicating characteristics of the client to the new
6 service,
7 allowing the new service to select a service profile
8 implementation for the client based on the characteristics of the
9 client, and
10 allowing the new service to send the selected service profile
11 implementation to the client.

1 7. (Original) The method of claim 1, wherein causing the client to
2 obtain the service profile from the new service involves executing a dynamic
3 extension profile, which implements a standard protocol that enables the client to
4 acquire any profile the client needs at the time the profile is needed.

1 8. (Original) The method of claim 1,
2 wherein performing the discovery operation involves using the Bluetooth
3 Service Discovery Protocol (SDP); and
4 wherein the client and the new service communicate using the Bluetooth
5 networking standard.

1 9. (Original) The method of claim 1, wherein the service profile can
2 define a service-specific Application Programming Interface (API).

1 10. (Original) The method of claim 1, wherein the service profile
2 implements a domain-specific protocol stack associated with the new service.

1 11. (Currently amended) A computer-readable storage medium storing
2 instructions that when executed by a computer cause the computer to perform a
3 method that facilitates dynamic delivery of service profiles to a client, the method
4 comprising:
5 performing a discovery operation to allow the client to discover new
6 services on a network;
7 if a new service is discovered for which the client does not possess a
8 service profile for the new service, causing the client to obtain the service profile
9 from the new service, ~~wherein the service profile specifies how to use the new~~
10 ~~service~~; and
11 causing the service profile to be installed on the client to enable the client
12 to use the new service.

1 12. (Original) The computer-readable storage medium of claim 11,
2 wherein causing the client to obtain the service profile involves:

3 causing the client to send a request for the service profile to the new
4 service; and
5 causing the client to receive the service profile from the new service.

1 13. (Original) The computer-readable storage medium of claim 11,
2 wherein the service profile includes code, and wherein causing the service profile
3 to be installed on the client involves causing the code to be installed on the client.

1 14. (Original) The computer-readable storage medium of claim 11,
2 wherein the service profile includes a specification that describes how to
3 use the new service; and
4 wherein causing the service profile to be installed on the client involves,
5 causing code to be generated to implement the
6 specification, and
7 causing the code to be installed on the client.

1 15. (Original) The computer-readable storage medium of claim 11,
2 wherein the service profile is encoded in a universal form that can be executed by
3 different types of clients.

1 16. (Original) The computer-readable storage medium of claim 11,
2 wherein there exist different service profile implementations for different
3 types of clients; and
4 wherein causing the client to obtain the service profile involves,
5 communicating characteristics of the client to the new
6 service,

7 allowing the new service to select a service profile
8 implementation for the client based on the characteristics of the
9 client, and
10 allowing the new service to send the selected service profile
11 implementation to the client.

1 17. (Original) The computer-readable storage medium of claim 11,
2 wherein causing the client to obtain the service profile from the new service
3 involves executing a dynamic extension profile, which implements a standard
4 protocol that enables the client to acquire any profile the client needs at the time
5 the profile is needed.

1 18. (Original) The computer-readable storage medium of claim 11,
2 wherein performing the discovery operation involves using the Bluetooth
3 Service Discovery Protocol (SDP); and
4 wherein the client and the new service communicate using the Bluetooth
5 networking standard.

1 19. (Original) The computer-readable storage medium of claim 11,
2 wherein the service profile can define a service-specific Application Programming
3 Interface (API).

1 20. (Original) The computer-readable storage medium of claim 11,
2 wherein the service profile implements a domain-specific protocol stack
3 associated with the new service.

1 21. (Currently amended) An apparatus that facilitates dynamic delivery
2 of service profiles to a client, comprising:

3 a discovery mechanism configured to perform a discovery operation that
4 allows the client to discover new services on a network;
5 a profile transfer mechanism, wherein if a new service is discovered for
6 which the client does not possess a service profile for the new service, the profile
7 transfer mechanism is configured to cause the service profile to be transferred
8 from the new service to the client, ~~wherein the service profile specifies how to use~~
9 ~~the new service~~; and
10 an installation mechanism configured to cause the service profile to be
11 installed on the client to enable the client to use the new service.

1 22. (Original) The apparatus of claim 21, wherein the profile transfer
2 mechanism is configured to:
3 cause the client to send a request for the service profile to the new service;
4 and to
5 cause the client to receive the service profile from the new service.

1 23. (Original) The apparatus of claim 21, wherein the service profile
2 includes code, and wherein the installation mechanism is configured to cause the
3 code to be installed on the client.

1 24. (Original) The apparatus of claim 21,
2 wherein the service profile includes a specification that describes how to
3 use the new service; and
4 wherein the installation mechanism is configured to,
5 cause code to be generated to implement the specification,
6 and to
7 cause the code to be installed on the client.

1 25. (Original) The apparatus of claim 21, wherein the service profile is
2 encoded in a universal form that can be executed by different types of clients.

1 26. (Original) The apparatus of claim 21,
2 wherein there exist different service profile implementations for different
3 types of clients; and
4 wherein the profile transfer mechanism is configured to,
5 communicate characteristics of the client to the new
6 service,
7 allow the new service to select a service profile
8 implementation for the client based on the characteristics of the
9 client, and to
10 allow the new service to send the selected service profile
11 implementation to the client.

1 27. (Original) The apparatus of claim 21, wherein the profile transfer
2 mechanism is configured to execute a dynamic extension profile, which
3 implements a standard protocol that enables the client to acquire any profile the
4 client needs at the time the profile is needed.

1 28. (Original) The apparatus of claim 21,
2 wherein the discovery mechanism uses the Bluetooth Service Discovery
3 Protocol (SDP); and
4 wherein the client and the new service communicate using the Bluetooth
5 networking standard.

1 29. (Original) The apparatus of claim 21, wherein the service profile
2 can define a service-specific Application Programming Interface (API).

1 30. (Original) The apparatus of claim 21, wherein the service profile
2 implements a domain-specific protocol stack associated with the new service.

1 31. (Currently amended) A device configured to dynamically deliver a
2 service profile to a client to enable the client to use a service provided by the
3 device, comprising:

4 the device configured to provide the service;
5 a memory within the device containing the service profile that enables
6 clients to use the service provided by the device, ~~wherein the service profile~~
7 ~~specifies how to use the service provided by the device;~~ and
8 a profile transfer mechanism configured to transfer the service profile to
9 the client on demand.

1 32. (Original) The device of claim 31, further comprising a discovery
2 mechanism configured to perform a discovery operation that allows devices to
3 discover each other.